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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,441	07/10/2006		Raymond Leonard Butler		1223-009	3177
1009 KING & SCHI		6/28/2007		. [EXAMINER	
247 NORTH B	ROADWAY		•		NGUYEN, DINH Q	
LEXINGTON, KY 40507				. [ART UNIT	PAPER NUMBER
			•		3752	=
					MAIL DATE	DELIVERY MODE
				•	06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/550,441	BUTLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dinh Q. Nguyen	3752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on 10 July 2006. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 36-46 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/23/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 36-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 36-41, and 45, the expression "the or each" is not fully understood by the Examiner, thus does not clearly express the meaning of the limitations that following the expression.
- 3. For the purpose of this Office action, the claims will be examined as best understood by the examiner

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 36, 37, 42-46 are rejected under 35 U.S.C. 102(b) as being anticipated by Henderson.

Henderson discloses a sprinkler head 26 suitable for use in forming a radiant heat barrier in the form of droplets of fire-fighting fluid in at least a single plane, the sprinkler head 26 comprising: at least one hollow radial arm 64, a hub 34 operatively connected to the at least one hollow radial arm 64 so that the at least one hollow radial arm 64 may pivot about the hub so as to spin in a radial plane when in use;

an extension 64 (a portion near the end of nozzle 66) operatively connected to each hollow radial arm 64, the extension being disposed at an angle to the at least one radial arm 64, within the radial plane, and being disposed at an outer end of, and in fluid communication with each of the respective hollow radial arm 64; and

a nozzle 66 to allow egress of fire-fighting fluid from the or each extension, and sprayed therefrom to form the radiant heat barrier in the at least radial plane.

With respect to claims 45-46, the apparatus shown by Henderson is capable of performing the method or steps recited in the claims.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henderson in view of Partridge.

Henderson teaches all the limitations of the claims except for one or more apertures provided along each of the radial arm. However, Partridge discloses a rotatable sprinkler head having at least one hollow radial arm 1 with one or more apertures 11 along the length of the arm, a hub 6 that allowing the hollow radial arms 1 to spin in a radial plane (see figure 2). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Henderson with one or more apertures provided along each of the radial arm as suggested by Partridge. Doing so would provide an effective way to fight fires.

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Conclusion

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8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to show the art with respect to a sprinkler head:

Hagen, Siler, Hayes, and Naedler.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dinh Q Nguyen
Primary Examiner

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